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(54) MANUFACTURE OF BATTERY ELECTRODE AND BATTERY ELECTRODE MANUFACTURED BY THIS METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To continuously manufacture a battery electrode from metal powder.

SOLUTION: A pair of continuously rotating rolling rolls is provided. Metal powder is spread on the surface of a pair of these rolling rolls and passed between the rolling rolls, and the metal powder is pressed at a required pressure by a pair of the rolling rolls and rolled. The contact area between mutual adjacent metal powder grains is controlled to leave fine spaces between the mutual metal powder grains to be rolled and a porous sheet is formed by using these fine spaces as pores to form a metal sheet. The metal sheet is passed through a sintering furnace to undergo sintering.

Subsequently, the metal sheet is continuously conveyed and passed between a pair of rolls where an active material is fed from a hopper disposed above. By this procedure, the pores is filled with the active material and also at least one side of the metal sheet is provided with a layer of the active material of required thickness.

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